

# Hourly Firm Evaluation Planning #2

April 11, 2019

# Proposed Hourly Firm Evaluation Planning #2 Agenda April 11, 2019

TIME	TOPIC	PRESENTERS
9:30 - 9:35 AM	Welcome & Safety	Katie Sheckells
9:35 - 9:40 AM	Proposed Agenda and Objectives	Katie Sheckells
9:40 - 11:05 AM	Deep Dive (including Spreadsheet)	Kevin Johnson/Group
11:05 - 11:20 AM	Break	
11:20 - 12:15 PM	Continuation of Discussion	Group
12:15 - 12:30 PM	Proposed Calendar and Next Steps	Katie Sheckells

#### BONNEVILLE POWER ADMINISTERATION

# **Today's Objective**

- Deep dive on an event to make sure that we have all the information that we need to evaluate the Hourly Firm product.
- This will be an active, collaborative session with BPA and the customers that is focused on the first objective.
- We will leave with a shared understanding of any additional information that may need to be developed and reviewed at future meetings.

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#### **DEEP DIVE**

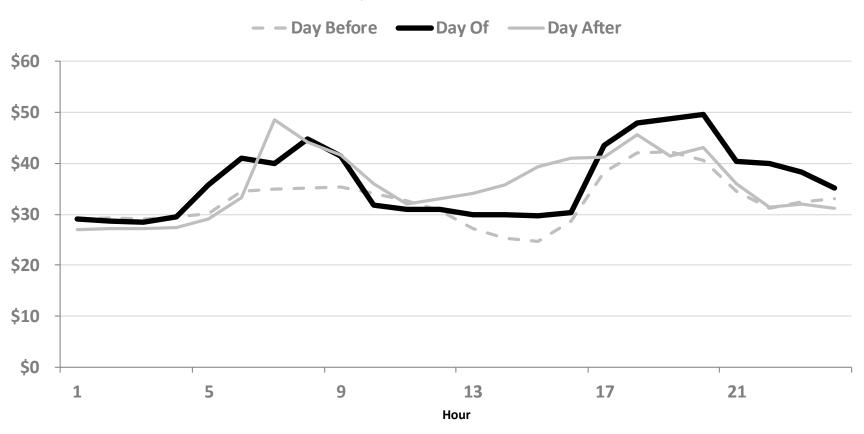
DECEMBER 14, 2016 WEST OF JOHN DAY HE08-09

#### **Conditions**

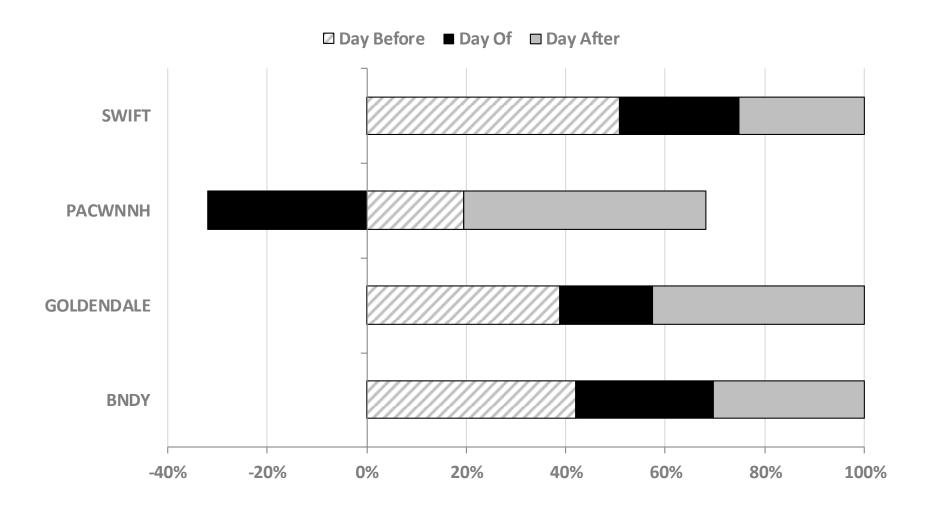
- Significant Load & Generation
  - Relatively low PDCI flows
  - Moderate wind
  - Average hydro
  - High WILSWA (Willamette Valley/SW Washington) imports
- Significant Outages
  - John Day-Big Eddy 2 500kV line (Planned)
  - Buckley-Marion 1 500kV line (Unplanned)

#### **Market**

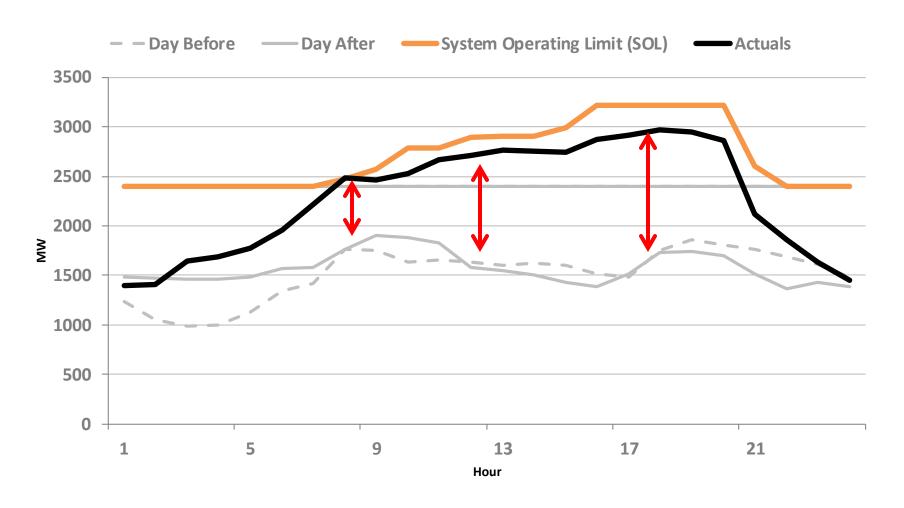
#### Mid-C Hourly Prices, December 14 2016



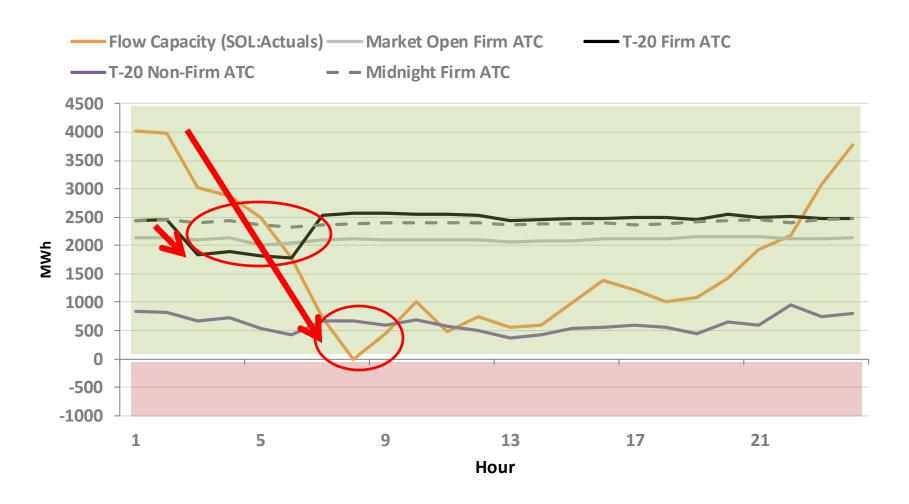
## **Significant Generation Variances**



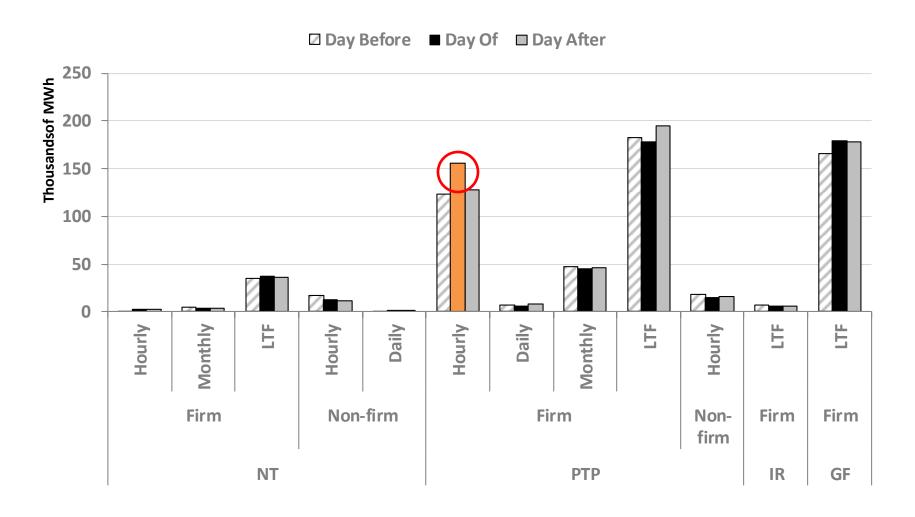
# **System Flows and Operating Limit**



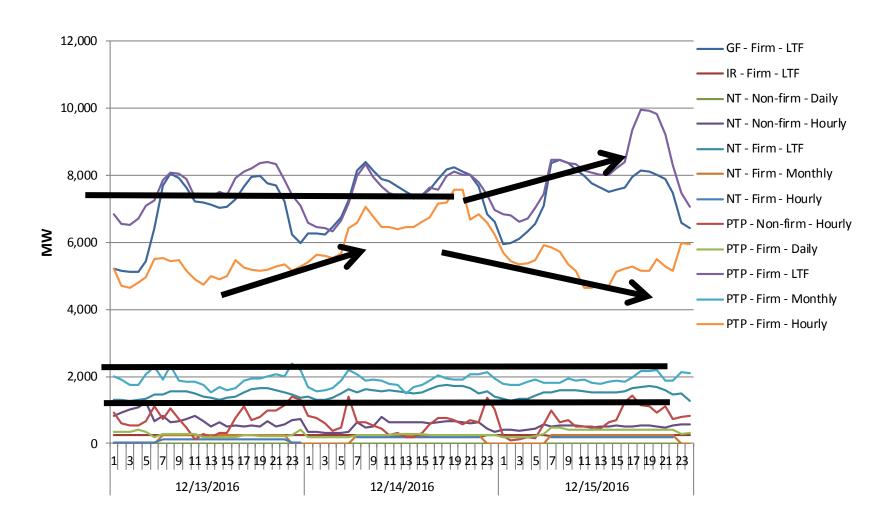
#### **Available Capacity**



#### **Product Schedules**



#### Scheduled Segments from Dec 13-15, 2016



# **Hourly Firm PTP Schedule**



# **Dispatcher Actions**

- No Dispatch topology actions
- Limit wind by path on WOJD
  - Limits generation to sum of schedules
  - From 0719 until 0842
- Stop Transmission Sales (TLR Avoidance)
  - Firm and NF HE08-09

# Redispatch

- 50MW discretionary redispatch
  - 37.0 MW of relief
  - From 0723 until 0800
- NT Redispatch on 4 of the curtailments
  - Varies: 2.1MW 62.6MW

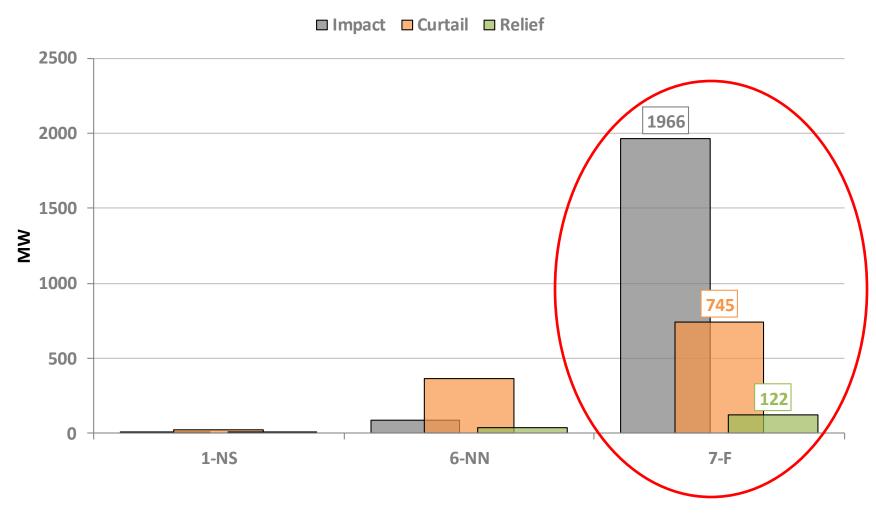
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#### **Curtailments**

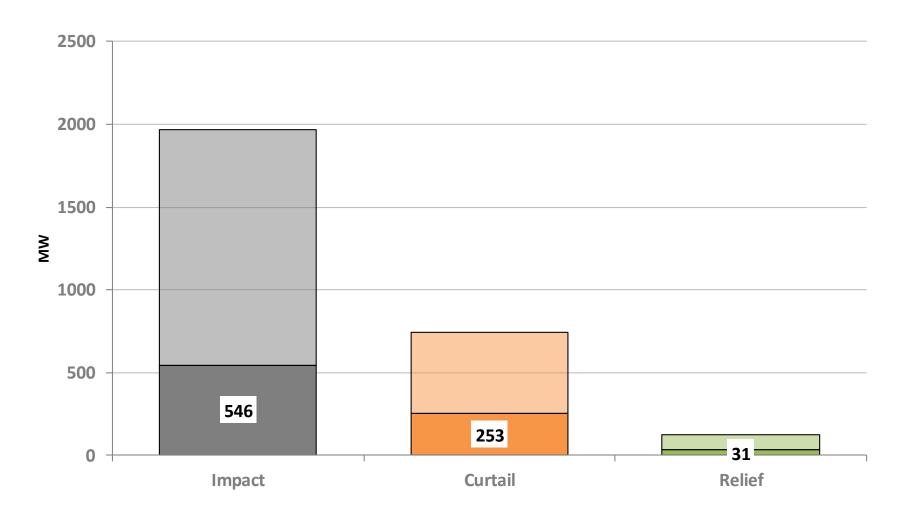
- 6 curtailments across 5 15-minute intervals
- Focus on iCRS04995-7 (largest curtailment)

Event ID	Curtailment Implementation Date	Curtailment Start	Curtailment Stop
[iCRS04997-7]	12/14/2016 08:16:28.466PST	12/14/16 8:30	12/14/16 8:45
[iCRS04996-6]	12/14/2016 07:58:04.413PST	12/14/16 8:15	12/14/16 8:30
[iCRS04995-7]	12/14/2016 07:55:34.067PST	12/14/16 8:00	12/14/16 8:15
[iCRS04994-6]	12/14/2016 07:41:26.489PST	12/14/16 8:00	12/14/16 8:15
[iCRS04993-7]	12/14/2016 07:40:56.209PST	12/14/16 7:45	12/14/16 8:00
[iCRS04991-7]	12/14/2016 07:32:03.946PST	12/14/16 7:32	12/14/16 7:45

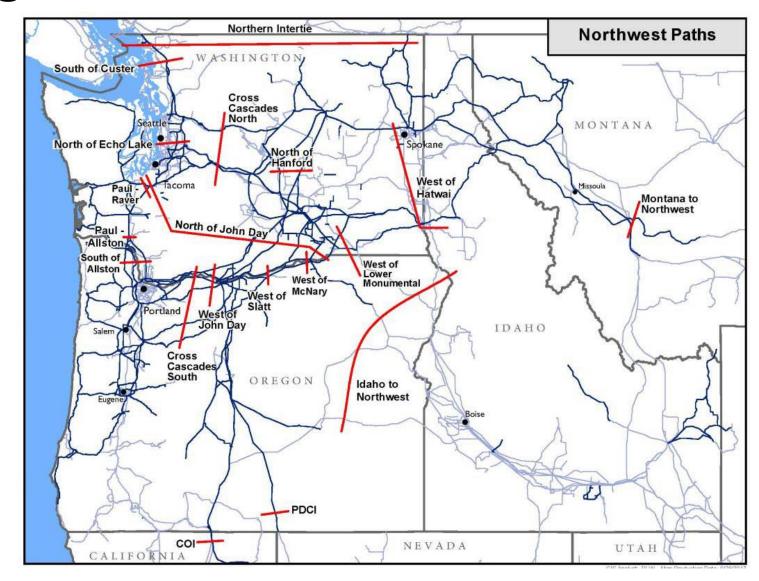
# **Curtailment Tag Evaluation by Product**



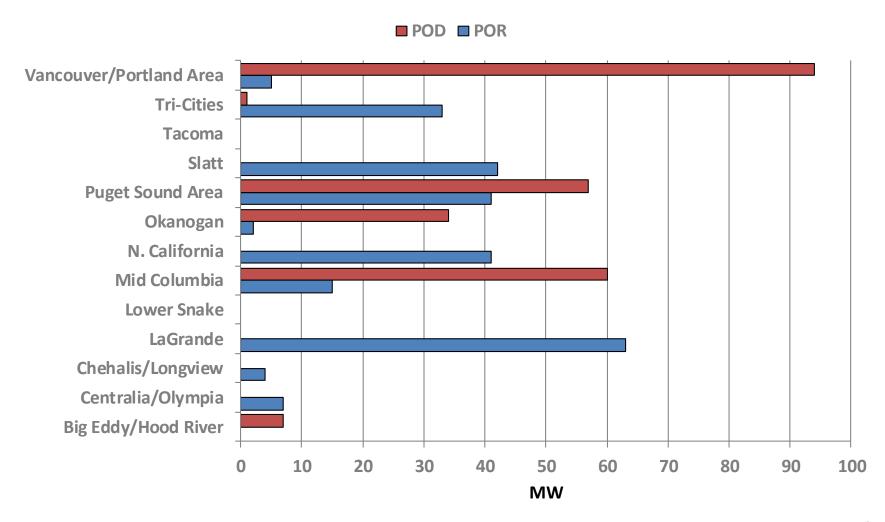
# **Hourly Firm PTP Curtailment Evaluation**



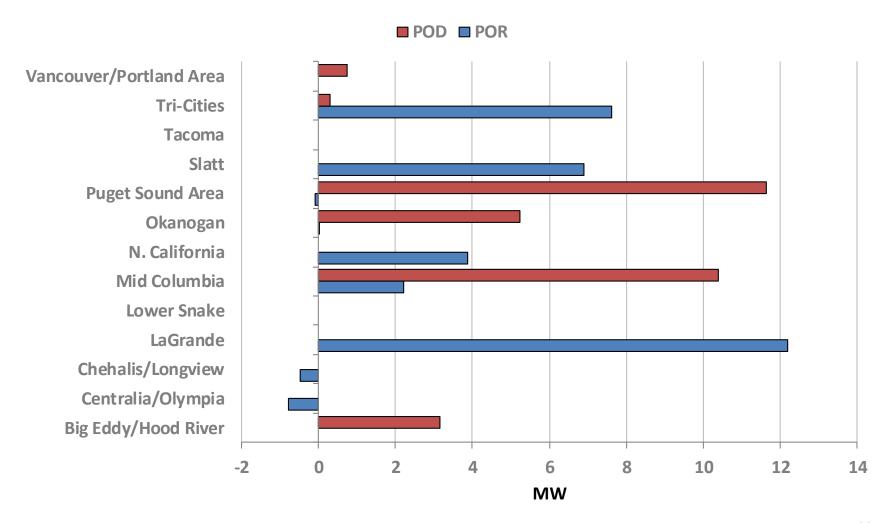
#### **Flowgates**



# **Hourly Firm Region Curtailment**



# **Hourly Firm Region Relief**



#### **Monitoring Data**

Establish on a series of reports and raw data that would be generated to meet the TC-20 Settlement.

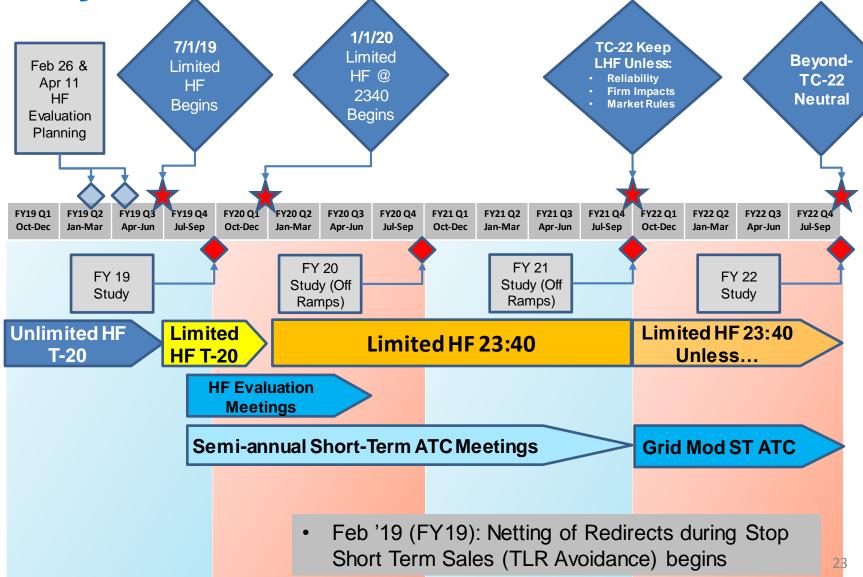
Generate monthly reports and append them to the running reports.

Post the updated and generated reports on a monthly basis on BPA's external website:

https://www.bpa.gov/transmission/CustomerInvolvement/TC20Implementation/Pages/default.aspx

#### **NEXT STEPS**

**Hourly Firm & Short-Term ATC Timeline** 



BONNEVILLE POWER ADMINISTRATION

#### **Draft Evaluation Schedule**

HOURLY FIRM PROPOSED CUSTOMER ENGAGEMENT SCHEDULE				
DATE	ENGAGEMENT TYPE	PURPOSE		
4/11	Customer Workshop (RHR) - 3 hours	Tell the data story behind the Events - validate the data and depictions with Customers		
4/16	Customer Webinar - 2 hours	Customers provide feedback from 4/11		
4/24	Customer Webinar - 2 hours	BPA presents updated material based on 4/16 feedback		
5/6	Customer Workshop (RHR) - 3 hours	BPA presents 1st draft of Monitoring & Evaluation Plan		
5/17	Customer Webinar - 2 hours	Customers provide feedback on the Plan		
6/13	TC-20 Customer Workshop (RHR)	BPA presents updated Monitoring & Evaluation Plan		
6/13 - 7/11	Customer Comment Period	All customer comments due		
7/17	Tech Forum Posting	Final Monitoring & Evaluation Plan shared		

Evaluation Results Workshops will be scheduled for September '19, March '20, June '20

#### **Proposed Calendar & Next Steps**

Next meeting:

Webinar: Tuesday, April 16, 2019

 BPA has posted an aggregate calendar on its web site at:

https://www.bpa.gov/transmission/Customerl nvolvement/Documents/2019-publicmeetings.pdf